



2821

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application

Inventors: Karam Michael Noujeim
Appln. No.: 10/600,293
Confirm. No.: 6310
Filed: June 20, 2003
Title: FIXED-FREQUENCY BEAM-STEERABLE
LEAKY-WAVE MICROSTRIP ANTENNA

PATENT APPLICATION

Art Unit: 2821

Examiner:

Customer No. 23910

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited in the United States Postal Service with sufficient postage as first class mail in an envelope addressed to **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**, on October 30, 2003.

(Attorney Signature)

Stephen R. Bachmann, Reg. No. 50,806
Signature Date: October 30, 2003.

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Commissioner for Patents
P.O. Box 1450
Art Unit 2821
Alexandria, VA 22313-1450

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56. If this is a continuation, divisional or continuation-in-part application, it is understood that the Examiner will consider all information which was considered by the Office in a parent application. MPEP §609. Such information therefore is not listed herein unless it is desired that the information be printed on a patent issuing from the subject application.

Enclosed with this statement are the following:

- Form PTO-1449. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. §609.
- The present application is being/was filed after June 30, 2003. In accordance with the pre-official gazette waiver of 37 CFR 1.98 (a)(2)(i) posted at: pac/dapp/opla/preognocice/idswouscopies.htm, copies of cited U.S. patents are not enclosed. However, copies of cited foreign patent documents and non-patent literature are enclosed in accordance with 37 CFR 1.98(a)(2), as still required.

The present application was filed prior to June 30, 2003. A copy of each cited document as required by 37 C.F.R. §1.98 is enclosed. Copies are not submitted of documents previously submitted by the applicant in a parent application from which benefit under 35 U.S.C. §120 is claimed, 37 C.F.R. §1.98(d)(1), with an *Information Disclosure Statement* submitted in the parent application which complies with the September 8, 2000 or subsequent revision of 37 C.F.R. §1.98(a-c). If any of the cited/submitted documents is in a foreign language, a concise explanation of relevance is provided pursuant to 37 C.F.R. §1.98(a)(3)(i). For foreign language documents cited in a search report by a foreign patent office, the requirement for a concise explanation of relevance is satisfied by the submission herewith of an English language version of the search report. MPEP §609A(3). If a written English-language translation of a non-English language document, or portion thereof, is within the possession, custody or control of, or is readily available to any individual designated in §1.56(c), a copy of the translation accompanies this statement, 37 C.F.R. §1.98(a)(3)(ii), and satisfies the requirement for a concise explanation of relevance, MPEP §609A(3).

— **PTA Statement under 37 C.F.R. §1.704(d).** Each item of information contained in the *Information Disclosure Statement* was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the *Information Disclosure Statement*.

This statement should be considered because:

37 C.F.R. §1.97(b). This statement qualifies under 37 C.F.R. §1.97, subsection (b) because:

- (1) It is being filed within three months of the filing date of an application other than a continued prosecution application under § 1.53(d);
-- OR --
- (2) It is being filed within 3 months of entry of a national stage;
-- OR --
- (3) It is being filed before the mailing date of the first Office Action on the merits,
-- OR --
- (4) It is being filed before the mailing date of the first Office Action after the filing of a Request for Continued Examination under 37 C.F.R. §1.114.

— **37 C.F.R. §1.97(c).** Although it may not qualify under subsection (b), this statement qualifies under 37 C.F.R. §1.97, subsection (c) because:

- (1) It is being filed before the mailing date of a FINAL Office Action, a Notice of Allowance, or an action that otherwise closes prosecution in the subject application, whichever occurs first.

-- AND (*check at least one of the following*) --

- (1) It is accompanied by a STATEMENT as set forth in 37 C.F.R. §1.97(e).
-- OR --
- (2) It is accompanied by the \$180 fee set forth in 37 C.F.R. §1.17(p).

— **37 C.F.R. §1.97(d).** Although it may not qualify under subsection (b) or (c), this statement qualifies under 37 C.F.R. §1.97, subsection (d) because:

- (1) It is being filed on or before payment of the Issue Fee;
-- AND --
- (2) It is accompanied by a STATEMENT as set forth in 37 C.F.R. §1.97(e);
-- AND --
- (3) It is accompanied by the \$180 fee set forth in 37 C.F.R. §1.17(p).

✓ ***Fee Authorization.*** The Commissioner is hereby authorized to charge any deficiencies or credit any overpayment to Deposit Account No. 06-1325. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

FLIESLER DUBB MEYER & LOVEJOY LLP

Date: October 30, 2003

By: S R Bachmann
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Form PTO-1449 <i>(Substitute)</i> Information Disclosure Statement BY APPLICANT <i>(Use several sheets if necessary)</i>				Attorney Docket Number ANRI-8055US0		Serial/Patent Number 10/600,293		
				Applicant/Patent Owner Karam Michael Noujeim				
				Filing/Issue Date June 20, 2003		Group Art Unit 2821		
U.S. PATENTS								
Examiner Initial		Patent Number	Issue Date	First Named Inventor		Class	Subclass	Filing Date
U.S. PATENT PUBLICATIONS								
Examiner Initial		Patent Application Publication Number	Publication Date	Applicant				
PENDING U.S. PATENT APPLICATIONS								
Examiner Initial		Application Number	Filing Date	First Named Inventor			Petition to Expunge? <input type="checkbox"/> Yes <input type="checkbox"/> No	
FOREIGN PATENT DOCUMENTS								
Examiner Initial		Document Number	Publication Date	Country		Class	Subclass	Trans- <u>lation</u> <input type="checkbox"/> Yes <input type="checkbox"/> No
OTHER DOCUMENTS (Include author (if any), title, publisher and place of publication, date and pertinent pages)								
		I. J. Bahl and Prakash Bhartia, <i>Leaky-Wave Antennas Using Artificial Dielectrics at Millimeter Wave Frequencies</i> , IEEE Transactions on Microwave Theory and Techniques, Vol. MTT-28, No. 11, November 1980, pp. 1205-1212.						
		Heshmatollah Maheri, Makoto Tsutsumi and Nobuaki Kumagai, <i>Experimental Studies of Magnetically Scannable Leaky-Wave Antennas Having a Corrugated Ferrite Slab/Dielectric Layer Structure</i> , IEEE Transactions on Antennas And Propagation, Vol AP-36, No. 7, July 1988, pp. 911-917.						
		Orest Vendik, Igor Mironenko and Leon Ter-Martirosyan, <i>Superconductors Spur Application of Ferroelectric Films</i> , Microwaves and RF, Vol. 33, No. 7, July 1994, pp. 67-70.						
		R. E. Horn, H. Jacobs, K. L. Klohn and E. Freibergs, <i>Single-Frequency Electronic-Modulated Analog Line Scanning Using a Dielectric Antenna</i> , IEEE Transactions on Microwave Theory and Techniques, Vol. MTT-30, No. 5 May 1982, pp.816-820.						
		S. V. Zaitsev and A. T. Fialkovskii, <i>Edge Effects in Strip Structures With an Arbitrary Grazing Angle of The Wave. Waves in a Microstrip Waveguide</i> , Radio Phys. Quant. Electron, Vol. 24, No. 9, September, 1981, pp. 786-791.						

OTHER DOCUMENTS (Include author (if any), title, publisher and place of publication, date and pertinent pages)

Wolfgang Menzel, *A New Travelling-Wave Antenna in Microstrip*, AEU, Vol. 33, No 4, April 1979, pp.137-140.

A. A. Oliner and K. S. Lee, *The Nature of the Leakage from Higher Modes on Microstrip Line*, 1986 IEEE MTT-S Digest, Baltimore, MD, June 2-4, 986, pp.57-60.

Examiner

Date Considered

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*1 = Copy not submitted because it was submitted in prior application SN /_____, filed _____, 20_____, relied on under 35 USC §120.

*2 = Copy not submitted because it was submitted in prior application SN /_____, filed _____, 20_____, relied on under 35 USC §120.